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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/779,284	02/08/2001	George A. Huff JR.	37,248-02	6591
759	90 06/17/2002			
BP Amoco Corporation			EXAMINER	
Law Department, Mail Code 2207A 200 E. Randolph Drive P.O. Box 87703 Chicago, IL 60680-0703		GRIFFIN, WALTER DEAN		
			ART UNIT	PAPER NUMBER
,			1764	2
			DATE MAILED: 06/17/2002	9

Please find below and/or attached an Office communication concerning this application or proceeding.

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.

4) Interview Summary (PTO-413) Paper No(s).

Notice of Informal Patent Application (PTO-152)

6) Other:

DETAILED ACTION

Claim Objections

Claims 14 and 16 are objected to because of the following informalities: In the next to last line of each of claims 14 and 16, the word "measure" should be changed to "measured".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 12, 15, and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- Claim 2 is indefinite because it refers to "the hydrogenation catalysts". This expression lacks proper antecedent basis in claim 1 since claim 1 refers only to one catalyst.
- Claim 12 is indefinite because the expression "the treating" lacks proper antecedent basis in claim 9.
- Claims 15 and 17 are indefinite because each refers to the composition of a preceding claim but the preceding claims are process claims. Therefore, it is unclear if applicant intends to claim a process or a composition.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4, 9-11, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatanaka et al. (6,217,748).

The Hatanaka reference discloses a process for the production of a fuel (i.e., diesel fuel). The process comprises hydrotreating a sulfur-containing diesel gas oil feed in a first step. The feed to this first step boils in the range of 200° to 380°C. The sulfur content of this feed is not particularly limited but is usually about 1 to 2 weight percent (10000 to 20000 ppm). In the first hydrotreatment step, the feed and hydrogen contact a catalyst to produce a hydrotreated product.

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Example 1 indicates that the first stage product has a sulfur content of 0.048 wt% (480 ppm). The first stage product is then separated into a light fraction and a heavy fraction by distillation. The cut point temperature for this separation is in the range of 300° to 350°C. The heavy fraction is further hydrotreated by contacting it and hydrogen with a catalyst in a second hydrotreating step. The catalyst used in the first hydrotreating step contains a carrier such as alumina and Group VI and VIII metals such as molybdenum, tungsten, cobalt, and nickel. A similar catalyst may be used in the second hydrotreating step. The amount of metal in the catalyst can range from 1 to 40 parts based on 100 parts of a carrier. The product from the second hydrotreating step is blended with the light fraction obtained in the distillation step to produce a diesel fuel. This fuel would have a flash point within the claimed ranges. See col. 2, line 47 through col. 3, line 56; col. 4, line 11 through col. 5, line 23; col. 5, line 65 through col. 6, line 24; col. 6, line 56 through col. 7, line 8; col. 7, line 66 through col. 8, line 43.

To the extent that the Hatanaka reference does not disclose sulfur amounts within the claimed ranges, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Hatanaka to obtain sulfur levels within the claimed ranges because Hatanaka discloses that reaction conditions can be optimized to obtained any sulfur content desired.

Claims 5-8 and 12-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hatanaka et al. (6,217,748) in view of Savage et al. (5,454,933).

As discussed above, the Hatanaka reference does not disclose the further treatment of the product from the second hydrotreatment.

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contacting the hydrocarbon with an adsorbent such as alumina. See col. 1, line 49 through col. 2,

The Savage reference discloses the further treatment of a hydrotreated hydrocarbon by

line 14; col. 2, lines 47-54; and col. 3, lines 18-36.

It would have been obvious to one having ordinary skill in the art at the time the

invention was made to have modified the process of Hatanaka by further treating the product

from the second hydrotreatment step by contacting it with an adsorbent as suggested by Savage

because a product with a lower sulfur content will be recovered as compared to a product that is

not further treated.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Walter D. Griffin whose telephone number is 703-305-3774. The

examiner can normally be reached on Monday-Friday 6:30 to 4:00 with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marian Knode can be reached on 703-308-4311. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9310 for regular

communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-0651.

Abelt D. Dull Walter D. Griffin

Primary Examiner

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WG

June 4, 2002